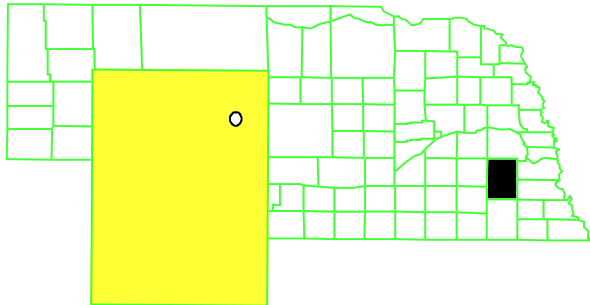


**WAVERLY GROUND WATER  
CONTAMINATION**  
**NEBRASKA**  
**EPA ID# NED980862718**

**EPA Region 7**  
**City: Waverly**  
**County: Lancaster County**  
**Other Names:**



## **SITE DESCRIPTION**

The Waverly Ground Water Contamination site extends over an 11-acre area underlying the City of Waverly. The U.S. Department of Agriculture operated a Federal grain facility in Waverly from 1952 to 1974. A grain fumigant consisting of carbon tetrachloride and carbon disulfide was used at the facility from 1955 to 1965. Since 1975, the property has been owned by Lancaster County, which operates a district office and maintenance facility on the premises. The EPA and the State of Nebraska sampled the municipal wells in 1982 and found them to be contaminated. One well was taken out of service, two wells were placed on standby status, and the city drilled new wells to replace them. The area surrounding the site is predominantly agricultural. The population of Waverly is approximately 1,700 people. There is a residential area adjacent to the former grain facility. Several private wells near the site are used for drinking water, livestock watering and crop irrigation. Runoff from the site drains into Salt Creek.

### **Site Responsibility:**

This site is being addressed through Federal actions.

### **NPL LISTING HISTORY**

**Proposed Date:** 10/15/84  
**Final Date:** 06/10/86  
**Deleted Date:**

## **THREATS AND CONTAMINANTS**

Samples taken from the municipal wells contained concentrations of heavy metals, volatile organic compounds (VOCs), nitrates, and sulfates. The soil is contaminated with VOCs including carbon tetrachloride and chloroform. Contaminants from the soil have seeped into the aquifer, the source of water for the municipal water supply. The polluted wells were taken out of service, and new wells were drilled; therefore, the municipal water supply is safe to use. The new wells are upgradient of the site and are not likely to be threatened.

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## CLEANUP APPROACH

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### Response Action Status

**Immediate Actions:** In 1988, as an immediate response to the ground water contamination, the EPA installed ground water monitoring wells, a system of pipes and wells in the ground connected to a pump to remove vapors contaminating soil (soil gas extraction system), and a ground water treatment system using air stripping. The ground water treatment involves forcing a stream of air through the contaminated water to evaporate the chemicals, which then are released into the atmosphere. Air monitoring is conducted to ensure that emissions are within acceptable limits. Treated ground water is discharged to a ditch near the site. The U.S. Department of Agriculture (USDA) is performing the operation and maintenance on the ground water extraction and soil gas treatment system. An additional extraction well was added to the system in 1993 to address contamination discovered outside the influence of the original ground water extraction well.

**Entire Site:** The USDA completed an investigation into the nature and extent of contamination at the site. Based on the results of this investigation, the EPA recommended that the immediate actions described above be continued until cleanup of soil and ground water is achieved. Operation and maintenance of the ground water treatment system is expected to continue through 1998.

### Site Facts:

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## ENVIRONMENTAL PROGRESS

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Construction at the site is complete. With the ground water cleanup actions described above underway and new wells providing drinking water to residences, the potential for accidental contact with contaminated ground water or soil has been reduced while final cleanup continues.

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## SITE REPOSITORY



Contact the Region 7 Superfund  
Community Relations Office.

Superfund Records Center  
901 N. 5th St.  
Kansas City, KS 66101  
Mail Stop SUPR  
(913)551-4038

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## REGIONAL CONTACTS

**SITE MANAGER:**

Victor Lyke

**E-MAIL ADDRESS:**

(913) 551-7256

**COMMUNITY INVOLVEMENT**

**COORDINATOR:**

**PHONE NUMBER:**

**PUBLIC INFORMATION CENTER:**

**E-MAIL ADDRESS:**

**STATE CONTACT:**

**PHONE NUMBER:**

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## MISCELLANEOUS INFORMATION

**STATE:**

NE

071X

**CONGRESSIONAL DISTRICT:**

01

**EPA ORGANIZATION:**

SFD-SUPR/FFSE

## MODIFICATIONS